(F) Robic (E)

(COUNT) — MINS — SECS — 1/100S
148 2'42"89 LAP
2:38'57'68 SPL
2:40'35"94 RUN
CHRONO   RUN

BACKLIGHT EL BACKLIGHT ADV/AVG
RCL/SET   50 LAP MEMORY SEL/MODE

(D) (C)

(A) (B)

SC-800 EL
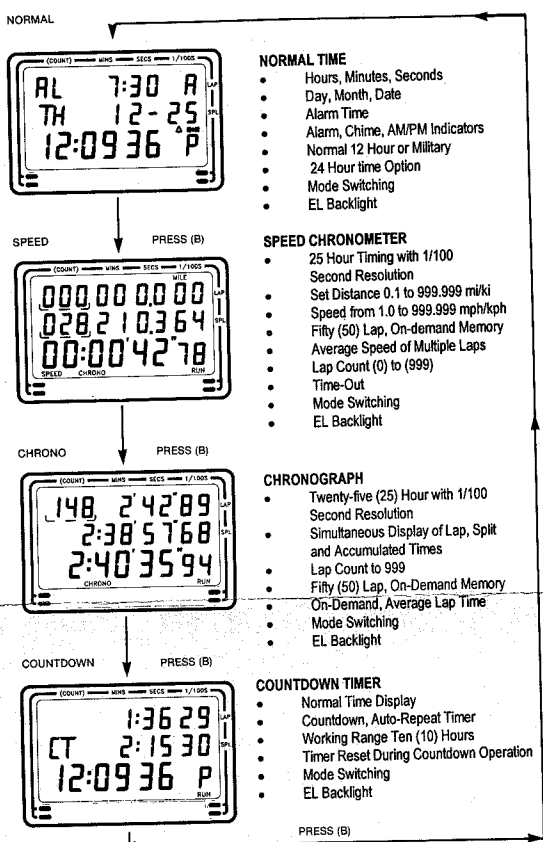EL BACKLIGHT
SPEED TIMER
50 LAP MEMORY

Thank you for buying the Robic SC-800EL. Your purchase brings you a world class timer with a wide range of professional features and functions that are applicable to numerous timing activities for sport, science & technology.

To ensure maximum enjoyment from your timer, please take a few minutes to carefully review this operating guide.

Once you are familiar with its operation, you will be ready to enjoy its many fine features, which include the following modes of operation: normal time, speed chronometer, chronograph and countdown timer.

NORMAL

(COUNT) MINS SECS 1/100S
AL 7:30 A
TH 12-25
12:09 36 P

NORMAL TIME
• Hours, Minutes, Seconds
• Day, Month, Date
• Alarm Time
• Alarm, Chime, AM/PM Indicators
• Normal 12 Hour or Military
• 24 Hour time Option
• Mode Switching
• EL Backlight

SPEED   PRESS (B)

(COUNT) MINS SECS MILE
000,00 0,00
028,2 10,3 64
00:00'42"78
SPEED CHRONO   RUN

SPEED CHRONOMETER
• 25 Hour Timing with 1/100 Second Resolution
• Set Distance 0.1 to 999.999 mi/ki
• Speed from 1.0 to 999.999 mph/kph
• Fifty (50) Lap, On-demand Memory
• Average Speed of Multiple Laps
• Lap Count (0) to (999)
• Time-Out
• Mode Switching
• EL Backlight

CHRONO   PRESS (B)

(COUNT) MINS SECS 1/100S
148 2'42"89
2:38'57'68
2:40'35"94
CHRONO   RUN

CHRONOGRAPH
• Twenty-five (25) Hour with 1/100 Second Resolution
• Simultaneous Display of Lap, Split and Accumulated Times
• Lap Count to 999
• Fifty (50) Lap, On-Demand Memory
• On-Demand, Average Lap Time
• Mode Switching
• EL Backlight

COUNTDOWN   PRESS (B)

(COUNT) MINS SECS 1/100S
1:36 29
CT 1:15 30
12:09 36 P
RUN

COUNTDOWN TIMER
• Normal Time Display
• Countdown, Auto-Repeat Timer
• Working Range Ten (10) Hours
• Timer Reset During Countdown Operation
• Mode Switching
• EL Backlight

PRESS (B)

I.   EL BACKLIGHT OPERATION

Pressing "D" at any time during any operation will activate the Electro-Luminescent (EL) Backlight function for viewing at night and in low light or no light situations.
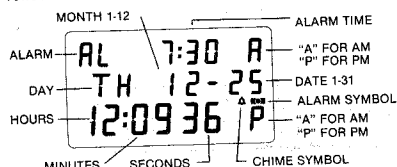
Once pressed, the EL Backlight will illuminate the display for three (3) second with a light blue, back lighting.

IMPORTANT:
Please use the EL backlight as required, but note it will reduce the product's battery life.

II.   NORMAL TIME - OPERATING INSTRUCTIONS

The starting point for operating your watch is normal time. If normal time is not displayed, press (B) until it appears.

To set the alarm, normal time and calendar, press (B) mode/select until the display appears as follows:

MONTH 1-12 — ALARM TIME
ALARM — AL 7:30 A — "A" FOR AM "P" FOR PM
DAY — TH 12-25 — DATE 1-31
HOURS — 12:09 36 P — ALARM SYMBOL / "A" FOR AM "P" FOR PM
MINUTES SECONDS — CHIME SYMBOL

To begin the setting process, press and hold (A) until alarm hours begin to flash in the upper row of the display.

ALARM HOURS: Press (C) to advance alarm hours. The "A/AM" or "P/PM" indicator adjusts automatically.

ALARM MINUTES: Press (B) and alarm tens of minutes appear flashing. Press (C) to advance.

NORMAL TIIME SECONDS: Press (B) and normal time seconds appear flashing. Press (C) to reset to all zeros.

NORMAL TIME HOURS: Press (B) and normal time hours appear flashing. Press (C) to advance.

NORMAL TIME TENS OF MINUTES: Press (B) and normal time tens of minutes appear flashing. Press (C) to advance.

MONTH SETTING: Press (B) and the month (1-12) digits appear flashing. Press (C) to advance.

DATE SETTING: Press (B) and date (1-31) appears flashing. Press (C) to advance.

DAY SETTING: Press (B) and the day appears flashing. Press (C) to advance the day of the week. MO (Monday), TU (Tuesday), WE (Wednesday), TH (Thursday), FA (Friday), SA (Saturday) and SU (Sunday.)

12/24 HOUR OPTION: The time may be set to operate normally (hours 1-12) or on a 24 hour basis (hours 1-24). To set the (12) or (24) hours, Press (B) after setting the Day and either 12 or 24 will appear on the display. To select 12 or 24, simply press (C) until the 12 or 24 time indicator appears.

After setting, press (A) to exit the setting mode. All digits (except seconds) will appear frozen.

NOTES:
(1) You may complete the setting process at any point by pressing (A).
(2) If you wish to set any particular function (alarm, time, calendar) press and hold (A) for three (3) seconds. Then press (B) until that digit(s) appears flashing. Press (C) to advance that function, then press (A) to complete the setting process.
(3) While setting, press and hold (C) for fast advance.

USING THE ALARM AND/OR HOURLY CHIME

The alarm can be armed (set to go off) to sound once per day. The alarm symbol (((•))) will appear when the alarm is armed.

The hourly chime in your watch can be armed (set to go off) to sound one (1) beep every hour on the hour. The chime indicator ▲ will appear when the hourly chime is armed.

ARMED AND DISARMING THE ALARM AND HOURLY CHIME

The alarm will automatically be armed (set to go off) after you set the alarm time. The symbol (((•))) will be visible above the "P" indicator on the lower row of the display, or;
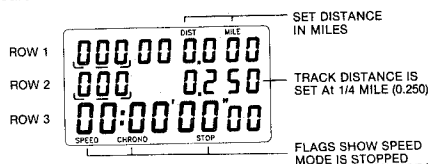
With your watch in normal time (no digits appear flashing);

(1) Press (C) and the chime symbol ▲ appears armed to sound hourly.
(2) Press (C) again, and the chime symbol disappears, and the alarm symbol (((•))) appears armed to sound at the time set (i.e., 7:30 A).
(3) Press (C) again and the chime symbol and alarm symbol are visible and armed to sound (chime/hourly/alarm at its set time).
(4) Press (C) again and both the chime and alarm symbols disappear. Both are disarmed.

III.   SPEED CHRONOMETER - HOW TO OPERATE

To enter the speed mode from normal time, press (B) once. If the speed timer is running, stop timing by pressing (E) once. Reset the display to all zeros by pressing (F) once or twice.

The display appears as follows:

ROW 1 000,00 0,00 — SET DISTANCE IN MILES / DIST MILE
ROW 2 000, 0.2 50 — TRACK DISTANCE IS SET At 1/4 MILE (0.250)
ROW 3 00:00'00'00 — FLAGS SHOW SPEED MODE IS STOPPED
SPEED CHRONO STOP

1. How to Determine and Enter the Track Distance

The first step is to enter the track distance correctly. The speed timer **will not** work unless a distance is entered.

Distance is entered as the decimal equivalent of a mile or kilometer from 000.001 to 999.999. For example, enter 2 1/4 miles/kilometers as 002.250, 1/3 as 000.333, 1/8 as 000.125 etc.

You may convert feet to the decimal equivalent of a mile, i.e. 187 feet is entered as 000.035 (187 divided by 5280 = 0.035).

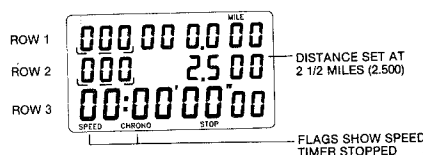Convert meters to kilometers as follows: 230 meters is entered as 000.230 (230 divided by 1000 = 0.230).

2. Enter Track Distance

To enter the track distance when the timer is stopped and reset to zeros, proceed as follows:

A. Press and hold (A) until "mile" or "km" appears flashing in the upper right hand corner of the display. Press (C) until the desired unit of measurement (Mile or KM) appears.

B. Press (B) and the first digit of the distance scale (Row 2) 000.000 appears flashing. Advance the digit (0-9) by pressing (C) until the desired digit appears. Once set, move to the second digit by pressing (B) once. Change the second digit by pressing (C).

Continue to set each digit on the distance scale until you have entered the correct distance. Press (A) to end the distance setting process. The distance set will appear and no digits will be flashing.

ROW 1 000,00 0,00 — MILE
ROW 2 000, 2.5 00 — DISTANCE SET AT 2 1/2 MILES (2.500)
ROW 3 00:00'00'00 — FLAGS SHOW SPEED TIMER STOPPED
SPEED CHRONO STOP

NOTES:

1. Should you need to set any particular digit on the distance scale, press (A) until "mile" or "km" appears flashing. Then press (B) until the correct digit appears flashing. Change the digit(s) by pressing (C). To end the setting procedure, press (A).

2. The maximum setting distance is 999.999 miles or kilometers.

3. The speed timer **will not** work unless a distance has been entered.

C. OPERATING THE SPEED CHRONOMETER.

After entering the track distance, you are now ready to operate the speed chronometer. For this section, assume a track distance of 2.500 (2 1/2 miles).

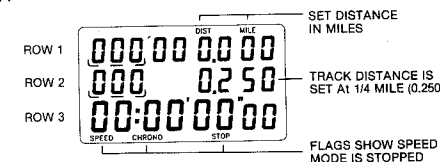### A   ONE LAP EVENT (START / STOP / ACCUMULATED TIME / RESET).

START: Press (E) to start the timer. Run indicator appears.

STOP: Press (E) again to stop the timer. The Stop indicator appears and 0:00'44"12 seconds has elapsed. The display appears as:

LAP COUNT IS (001)
ROW 1 000,00 0,00 — MILE INDICATOR
ROW 2 00 12 0 3,9 89 — LAP SPEED OF 203.989 MPH
ROW 3 00:00'44"12 — LAP TIME OF 44.12 SECONDS
SPEED CHRONO STOP

ACCUMULATED TIME: Press (F) and the accumulated time will appear in row (3) of the display.

RESET (all zeros): To return the timer to the start position (all zeros), press (F) again. The display appears as follows:

ROW 1 000,00 0,00 — SET DISTANCE IN MILES / DIST MILE
ROW 2 000, 0.2 50 — TRACK DISTANCE IS SET At 1/4 MILE (0.250)
ROW 3 00:00'00'00 — FLAGS SHOW SPEED MODE IS STOPPED
SPEED CHRONO STOP

B. MULTI-LAP EVENT TIMING

When timing multi-lap events, the operating sequence is START / LAP / STOP / ACCUMULATED TIME / RESET.

START: Press (E) to start. Run indicator appears and the time counter (Row 3) is counting.

LAP: To take a lap reading, press (F) the instance the lap is completed. The lap number and speed appear in Row 2, the time in Row 3. After 15 seconds, the time will revert to current lap running time. You may select current lap running time instantly by pressing (B).   Continue to press (F) for each lap reading.

LAP COUNT IS (001)
ILLUSTRATION (A)
ROW 1 000,00 0,00 — MILE INDICATOR
ROW 2 00 12 0 3,9 89 — LAP SPEED OF 203.989 MPH
ROW 3 00:00'44"12 — LAP TIME OF 44.12 SECONDS
SPEED CHRONO RUN

ILLUSTRATION (B)
ROW 1 000,00 0,00 — MILE
ROW 2 00 1,2 0 3,9 89 — SPEED LAP (001)
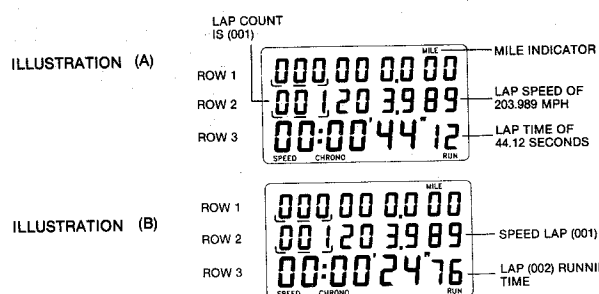ROW 3 00:00'24"76 — LAP (002) RUNNING TIME
SPEED CHRONO RUN

Illustration (a) above indicates the display after you have taken a lap reading. It notes the speed and time of LAP 001. The time will revert to current lap running time after 15 seconds or instantly when you press (B).

Illustration (B) above shows the lap speed of Lap 001 (Row 2) and the running time of Lap 002 (Row 3). Running time disappears automatically after fifteen (15) seconds.

The speed and time of Lap 002 will appear only after you press (F) the instant Lap 002 is completed.

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www.stopwatches.com
www.robictimers.com

You may release to the running time (Taylor Split) of the current lap, prior to fifteen (15) seconds by pressing (B) once.

END OF RACE: At the end of the race, press (E). The speed and time of the last lap will appear in the display (lap # and speed in row 2, and time in row #3).

ACCUMULATED TIME: Press (F) once, and Row (3) will display the accumulated time of the race. Press (F) again, the timer will reset to zeros, and you are ready to begin timing again.

IMPORTANT NOTICE

When taking a lap reading and 'Error' appears (Row 2), you have exceeded the speed capability of the timer (999.999 mph/kph).

This occurs when you take a lap reading too soon, either by accident or on purpose, i.e. long track distance and fast lap time. When this situation occurs, your timer is functioning properly and is still recording data. Wait until the lap is completed, then press (F) and the appropriate speed and time will appear on the display.

C. SPECIAL FEATURES: Your speed timer is equipped with special features described below. Review them carefully.

MEMORY: Your timer has a fifty (50) lap memory through 999 laps. The memory may be used during event timing or after the timer is stopped. To use the memory recall, press (A) anytime. The recall indicator will appear.

ROW 1 — LAP (061) MPH
ROW 2 — LAP (062) MPH
ROW 3 — LAP (061) TIME IS 44.12 SECONDS

The above example shows the display, if you use memory recall by pressing (A), Row (1) indicates the speed of Lap 061 and Row (3) the time of Lap 061. The speed of the last lap recorded L062 appears in Row (2).

By continuing to press (A) recall, you can retrieve the previously recorded fifty (50) laps in descending order (60, 59, 58, etc.).

When using memory recall, the speed of the lap always appears in Row (1) and time always in Row (3).

When finished using memory recall, the speed/time data disappear automatically after fifteen (15) seconds, or instantly if you press (B). Row (1) will return to all zeros, and Row (3) to current lap running time.

At the end of event timing, the memory recall will work the same as when the product is in use. **Memory cannot be used if you have reset the display to zeros.**

AVERAGE SPEED of multiple laps will be displayed any time, when pressing (C). The average (AVG) indicator appears on the upper row of the display.

Average speed of completed laps appears in Row (1) and average time of completed laps in Row (3). Row (2) will display the speed of the last recorded lap.

LAPS COMPLETED — AVERAGE SPEED 62 COMPLETED LAPS
LAST LAP — SPEED LAST LAP RECORDED
— AVERAGE TIME OF 62 LAPS COMPLETED
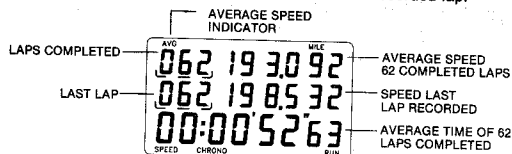
The speed timer will display the average speed for 1-999 completed laps. **YOU CANNOT** obtain an average speed reading after the timer has been stopped and display reset to zeros.

The average speed data will disappear automatically after fifteen (15) seconds or instantly by pressing (B).

ACCUMULATED TIME of the race will be displayed after the last lap of the event is recorded and the speed timer is stopped. To read accumulated time proceed as follows:

Press (E) to stop the timer, press (F) to read accumulated time and (F) again to reset the timer to zeros.

DO NOT press (F) to reset the timer to zeros after reading the accumulated time if you wish to access the memory or average speed. Retrieve all the data prior to resetting the timer to all zeros.

TIME OUT: Your timer has a "time-out" feature. If the event being timed is stopped for any reason, simply stop the timer by pressing (E). DO NOT reset the timer to all zeros. When the event resumes, press (E) again and your timer will begin recording data normally. The previously recorded information will be stored in memory for access by using memory recall (Press A).

IV. CHRONOGRAPH – HOW TO OPERATE

From normal time, press (B) twice, and the chronograph indicator (CHRONO) appears.

The "stopped" chronograph display will appear as follows. IF NOT, press (F) to stop and (E) until the display is reset to all zeros.

ROW 1 — LAP TIME
ROW 2 — SPLIT TIME
ROW 3 — ACCUMULATED TIME
CHRONO MODE INDICATORS
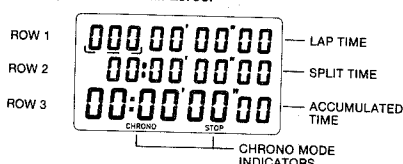
The working range of the chronograph is twenty five (25) hours, with a resolution of 1/100 second. The chronograph measures lap and split time, simultaneously. The accumulated running time is presented continuously (Row 3).

(NOTE: You cannot operate the chronograph if the speed timer is running. To stop the speed timer, enter the speed mode. Stop timing by pressing (E) once. Press (F) until the timer is reset to all zeros. Once the speed timer is stopped, you may enter and use the chronograph.)

TIMING SINGLE LAP EVENTS

Start timing by pressing (E). Stop timing by pressing (E) again. Reset to zeros by pressing (F) until zeros appear.

TIMING MULTIPLE LAP EVENTS

Reset time to all zeros by pressing (E) to stop and (F) to reset to all zeros.

TO START: Press (E) and the timer will begin to run (Run indicator appears).

TO TAKE LAP / SPLIT READING: Press (F).

TO STOP TIMING: Press (E), then (F) to reset to all zeros.

MEMORY: Your timer has the capability to recall the previous fifty (50) completed laps (50-49-48-etc) at any time.

To use memory recall, when the **timer is running,** press (A) and the recall indicator appears along with the individual lap and split times. The memory recall data will disappear automatically after fifteen (15) seconds or instantly when pressing (B).

To use memory recall after the **timer is stopped** and the display has not been reset to all zeros, proceed as follows:

Press (A) continuously to retrieve memory data. When finished, the memory recall display will return to the last lap timed, automatically after fifteen (15) seconds, or instantly when you press (B). To reset the timer Press (F) until all zeros appear.

AVERAGE LAP TIME will be displayed when pressing (C). The average (AVG) indicator appears. The average lap time will be shown in the upper row of the display. The average lap time data will disappear automatically after fifteen (15) seconds, or instantly when pressing (B).

Average lap data can be displayed after event timing and prior to resetting the display to zeros. With the timer stopped, press (C) to read the average lap time, then (F) to reset the timer to zero.

NOTE: When the chronograph is stopped, you cannot retrieve memory or average time data if the display has been reset to all zeros. ALWAYS retrieve memory recall and/or average time data prior to resetting the chronograph.

TIME OUT: Your chronograph has a time-out feature if the event being timed is stopped for any reason, press (E) to stop timing, restart by pressing (E). All previously recorded data will be stored in memory (up to fifty (50) laps).

V. COUNTDOWN TIMER – HOW TO OPERATE

Your watch has an auto-repeat, countdown timer (CT) with a working range from 1 second to 9 hrs. 59 mins, and 59 secs. The CT will not work unless a countdown time has been entered. To access the CT mode, press (B) until the display appears as follows:

ROW 1 — COUNTDOWN TIME
ROW 2 — PRESET COUNTDOWN TIME
ROW 3 — NORMAL TIME
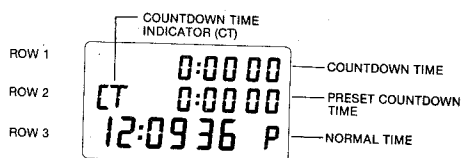
SETTING THE CT (If running, stop the timer by pressing (E).)

To set the countdown timer, proceed as follows:

Press and hold (A) until the seconds in row two (2) begin to flash.

To set seconds (00-59), press and hold (A) until the seconds digits in row (2) begin to flash. Set seconds by pressing (C) until you have reached the desired number of seconds.

To set minutes, press (B) and minutes begin to flash, then press (C) until the desired number of minutes appear (00-59).

To set hours, press (B) and hours begin to flash, then press (C) until the desired number of hours appear (0-9).

End the setting sequence by pressing (A) once, digits will stop flashing.

You may by-pass setting seconds, minutes or hours by pressing (B). You may stop the setting sequence at any time by pressing (A).

HOW TO OPERATE THE CT

Once you have set the countdown time, you are ready to use the countdown timer. Proceed as follows:

1. You must load the preset time row (2) by pressing (F). The countdown time will appear in row (1) and will instantly begin to countdown as illustrated:

ROW 1 — TIME COUNTING DOWN
ROW 2 — PRESET COUNTDOWN TIME
ROW 3 — NORMAL TIME
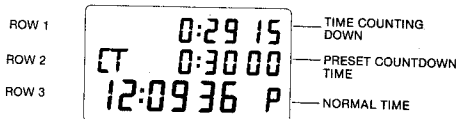
Once loaded, the pre-set countdown time will countdown to zero. The CT will automatically return to 30 minutes and 00 seconds and will begin to countdown again to zero.

STOP-RESTART

To stop the CT during the countdown process at any time, press (E). To restart, press (E) again.
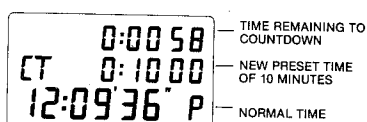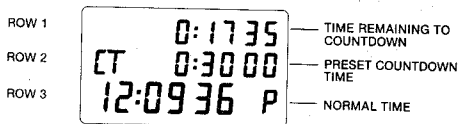
STOP-LOAD-RESTART

You may stop the countdown time at any time by pressing (E). To restart the countdown timer from the preset time, press (F), and the countdown time will automatically return to the preset countdown time (Row 2) and will instantly begin to countdown again to zero, e.g., from 30 minutes and 00 seconds.

RESETTING THE CT

You may reset the countdown timer in two ways:

(1) When the countdown timer is stopped. Proceed as explained above. or,

(2) When the countdown timer is running. Do not stop the timer. Proceed as follows:

Enter set by pressing (A) until seconds begin to flash. Set seconds by pressing (C). Once seconds are set, press (B) and minutes will flash. Press (C) to set minutes. Once minutes are set, press (B) and hours will flash. Press (C) to set hours. To end the setting sequence, press (A). The new preset countdown time will "load" automatically once the original countdown time reaches zero.

ROW 1 — TIME REMAINING TO COUNTDOWN
ROW 2 — PRESET COUNTDOWN TIME
ROW 3 — NORMAL TIME

ROW 1 — TIME REMAINING TO COUNTDOWN
ROW 2 — NEW PRESET TIME OF 10 MINUTES
ROW 3 — NORMAL TIME

ALARM SOUND

(1) A single beep tone will sound when the countdown time reaches zero (0), provided the countdown time has been set for less than one (1) minute.

(2) A four (4) second beep tone will sound when the countdown time reaches zero (0) when the countdown timer has been set for one (1) minute or more.

MODE SWITCHING

You may enter and use other modes of operation while the CT is being used by pressing (B). You may enter the CT again by pressing (B) until you have reached the CT mode.

You cannot, however, use the speed timer if the chrono is running. Conversely, you cannot use the chrono if the speed timer is running.